

Please amend the remaining claims as follows:

18.

(amended) An endocardial mapping catheter assembly comprising:

- [g] a) a plurality of insulated wires braided throughout their length into an interlocking weave;
- [h] b) [A] a distal portion of the interlocking weave being expandable from a first generally cylindrical shape to a second expanded shape; and
- [i] c) [A] a plurality of electrodes on the insulated wires, each electrode in electrical communication with a single wire, and with each wire being in electrical communication with no more than a single electrode.

27.

(amended) An endocardial mapping catheter assembly comprising

- [j] a) an elongated flexible lead body having an interior lumen and proximal and distal ends;
- [k] b) at least twenty-four insulated wires in the lumen extending from the proximal to the distal end of the lead body, the wires collectively forming a wire assembly;
- [l] c) an expandable portion of the wire assembly near the distal end of the flexible lead body, the expandable portion being expandable from a first generally cylindrical shape to a second expanded shape;
- [m] d) the majority of wires in the wire assembly each having a single electrode in the expandable portion of the wire assembly;
- [n] e) an electrical plug on the proximal end of the flexible lead body, the electrical plug having a plurality of connection, each connection being in electrical communication with one of the wires.

28.

(amended) The endocardial mapping catheter assembly of claim [0] 27 wherein the electrodes are formed by removing a portion of the insulation surrounding the wire.

30.

(amended) An endocardial mapping catheter assembly comprising:

- [o] a) a plurality of insulated wires surrounded by an insulating material;
- [p] b) a braid comprised of a combination of the insulated wires in an interlocking weave,